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**RCA-03/0019/69**

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## Basic Imagery Interpretation Report



**NATIONAL  
PHOTOGRAPHIC  
INTERPRETATION  
CENTER**

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## MYTISHCHI ELECTRONIC RESEARCH COMPLEX

**DEPLOYED COMM/ELEC/RADAR FACILITIES**

**USSR**

**MARCH 1969**

**COPY NO. 105**

**5 PAGES**  
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INSTITUTION OR ACTIVITY NAME

Mytishchi Electronics Research Complex

COUNTRY

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NA

55-55-20N 037-44-50E

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ACIC. US Air Target Chart 200, Sheet M0167-5HL, 2d ed, Apr 63, Scale 1:200,000 (SECRET/

ATEST IMAGERY USED

RELATION DATE

NA

## ABSTRACT

This report presents detailed information on all components currently present at Mytishchi Electronic Research Complex. The complex may be subdivided into five related areas: an R&D test area, an administration and technical area, a storage and fabrication area, a support area, and a special housing area.

The complex has a history of electronics research and development dating from the early 1940s. One of the best known radars developed at the complex is the BEER CAN which is now deployed.

## INTRODUCTION

The Mytishchi Electronic Research Complex is located approximately 11 nautical miles (nm) north-northeast of Moscow, USSR. It is both road and rail served. The complex can be subdivided into five areas: an R&D test area, an administration and technical area, a storage and fabrication area, a support area, and a special housing area (Figure 1).

25X1 The complex has a long history of electronics research and development. Ground photography and other collateral information indicate electronics research dating back to the early 1940s. Some of the equipment tested here has now been deployed. Large-scale photography does not parallel available ground photography and, therefore, a chronology of the facility is not included.

The physical boundaries of the Mytishchi complex are very difficult to determine because of the age of the complex and its situation within a rather dense cultural environment. A facility which may or may not be related is located adjacent to the eastern side of the complex. This facility, in general, is separately secured and has the appearance of some type of military school or installation. Principal access to the facility is by a road through the R&D test area; several access roads enter the complex from the southern side.

25X1 All mensuration given in this report is accurate to within for horizontal dimensions and for vertical dimensions.

## BASIC DESCRIPTION

### Operational Functions

#### R&D Test Area

The R&D test area is secured by a single fence and consists of a test line which is served by a rail-mounted traveling jib crane and approximately ten buildings of various sizes and functions. Numerous vehicles, vans, and miscellaneous pieces of equipment are located in the field adjacent to the test line. Several radars of various types and other electronics components are located along the test line (Figure 2, items A through F):

25X1 Item A is an unidentified radar whose configuration cannot be determined because of the limited interpretability of available photography. Several test platforms and an environmental shelter are located near the unidentified radar.

raphy reveals that this pedestal was occupied by a probable prototype top-section mesh reflector used in the BEER CAN radar (see item E).

25X1 Item C appears to be a horizontal truncated probable service platform (Figure 2). The probable service platform has a height of A circular object, in diameter and high, is located to the rear.

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Item D is an occupied cylindrical pedestal. The pedestal is occupied by what appears to be an early probable prototype of a BACK NET-type radar.

Item E is the early probable prototype of the BEER CAN radar. 1/ Sections of this radar, such as the bottom reflector, were observed of ground photography of 1957.

A 370-foot-high square-base steel lattice calibration tower is located approximately 3,500 feet north of the R&D test line. A small control building is located at its base. Ground photography reveals that the tower has numerous calibration antennas and reflectors of undetermined dimensions.

Item F is a probable single R-400 microwave antenna. The antenna is mounted on a steel lattice tower. The propagation azimuth of the antenna cannot be determined because of the limited interpretability of available photography.

#### Administration and Technical Area

The functional boundaries of this area are not well defined. It contains a diverse number of buildings whose specific function cannot be positively determined. The three largest buildings within this area (items 60, 61, and 65) may function as living quarters, or as engineering staff offices or classrooms. A small motor pool in the southeast corner of the area contains approximately 115 van trucks, cargo trucks, and small vehicles.

The area also contains an assortment of logistic and support buildings which provide the necessary personnel services.

#### Storage and Fabrication Area

This area consists mainly of warehouses and vehicle maintenance/storage buildings. Several buildings appear to be utilized for light fabrication and assembly operations; general shop buildings are associated with these buildings. Numerous piles of undetermined material are scattered throughout the area. Approximately 100 assorted van trucks, cargo trucks, and unidentified vehicles/pieces of equipment are located within the area. The area is rail served by a single track with at least four internal rail spurs. The area is partially secured by a single fence. No radars or electronics components can be identified within this area.

#### Support Area

The support area is located on the eastern side of the R&D test area and consists mainly of storage, maintenance, and support buildings. Numerous piles of unidentified material are scattered throughout the area.

#### Special Housing Area

The special housing area is secured by a single fence. This area probably serves as housing for the security detachment. An apparently abandoned HF double rhombic antenna is located approximately 1,000 feet southwest of this area.

ground photography reveals that the area contains a tall guard tower and several possible VHF antennas.

#### Status and Activity

The complex has, until been covered by small-scale or large-scale photography of generally unsuitable interpretability. The earliest small-scale photographic coverage of suitable interpretability on which the complex can be observed is

This coverage, along with several intervening missions, was compared with the latest available large-scale photography. It was determined that very few significant physical changes have taken place during this period. Because of the limited photographic coverage, no attempt has been made to develop a chronology of the complex.

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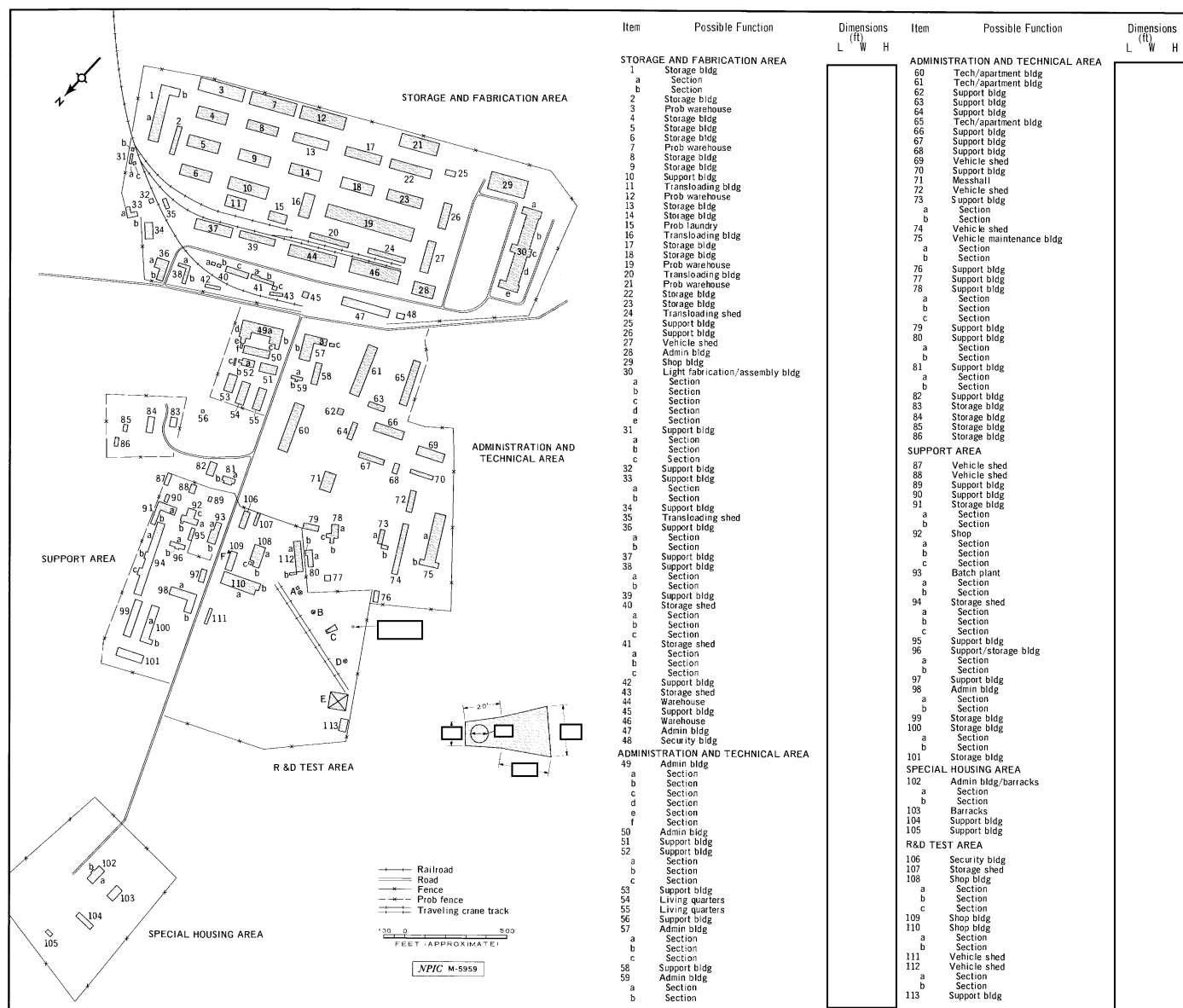


FIGURE 2. STRUCTURES AT MYTISHCHI ELECTRONIC RESEARCH COMPLEX.

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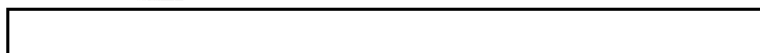
REFERENCES

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MAPS OR CHARTS

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ACIC. US Air Target Chart 200, Sheet M0167-5HL, 2d ed, Apr 63, Scale 1:200,000 (SECRET/



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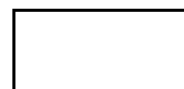
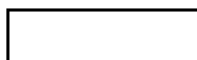
1. NPIC.  Launch Complex A, Sary-Shagan Antimissile Test Center, USSR, Mar 66 (TOP SECRET 

REQUIREMENT

COMIREX BR-C/005-69

NPIC Project 210638

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